

## WHAT IS CLAIMED IS:

1. A medical examination chair (F) for seating and moving a patient in three substantially perpendicular planes over a large amplitude, said medical examination chair  
5 (F) comprising a primary arc (5) connected to a stationary column (3) via a horizontal shaft (1) that constitutes a first axis of rotation (X), there being a second axis of rotation (Y) substantially perpendicular to the first axis of rotation (X) that passes through  
10 first and second ends (EX1, EX2) of said primary arc (5), said medical examination chair (F) including a secondary arc (6) that is provided with a seat (10) and that is arranged inside said primary arc (5), being secured via  
15 third and fourth ends (EX3, EX4) to said first and second ends (EX1, EX2) respectively via an upper shaft (2a) and a bottom shaft (2b), said primary and secondary arcs (5, 6) being suitable for performing rotary movement about said first and second axes of rotation (X, Y) respectively, said medical examination chair (F) further  
20 including brake means for stopping said rotary movement suddenly.
2. A medical examination chair according to claim 1, including a first motor for setting said primary arc (5)  
25 into rotation about said first axis of rotation (X).
3. A medical examination chair according to claim 1, including a second motor for setting said secondary arc (6) into rotation about said second axis of rotation (Y).  
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4. A medical examination chair according to claim 2, wherein said brake means includes said first motor that enables said primary arc (5) to be stopped suddenly.
- 35 5. A medical examination chair according to claim 3, wherein said brake means includes said second motor that enables said secondary arc (6) to be stopped suddenly.

6. A medical examination chair according to claim 1, wherein said brake means include a first brake for stopping the primary arc (5).

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7. A medical examination chair according to claim 1, wherein said brake means include a second brake for stopping the secondary arc (6).

10 8. A medical examination chair according to claim 1, wherein said brake means include at least a first mechanical abutment (B1) for suddenly stopping said primary arc (5) relative to said stationary column (3).

15 9. A medical examination chair according to claim 8, wherein said first mechanical abutment (B1) placed on one lateral side of said stationary column (3) is provided with a ring (B1") and a damper (B1'), said ring (B1") co-operating with a tooth of catch means (B10) arranged on  
20 the primary arc (5).

10. A medical examination chair according to claim 1, wherein said brake means include a second mechanical abutment (B2) for suddenly stopping said secondary arc  
25 (6) relative to said primary arc (5).

11. A medical examination chair according to claim 10, wherein said second mechanical abutment (B2) is provided with at least one hook (B22) and at least one damper  
30 (B21) arranged on the first end (EX1) of the primary arc (5), said hook (B22) co-operating with stop means (B23) disposed on the third end (EX3) of the secondary arc (6).

12. A medical examination chair according to claim 11,  
35 wherein said stop means (B23) is retractable.

13. A medical examination chair according to claim 1,  
wherein the position of said seat (10) along said second  
axis of rotation (Y) is adjustable.
- 5 14. A medical examination chair according to claim 1,  
including a seat back (8) that is adjustable in  
translation along said second axis of rotation (Y).
- 10 15. A medical examination chair according to claim 1,  
including at least one foot-rest (9) that is adjustable  
in translation along said second axis of rotation (Y).
- 15 16. A medical examination chair according to claim 15,  
wherein the angle of inclination of said foot-rest (9)  
relative to the second axis of rotation (Y) is  
adjustable.
- 20 17. A medical examination chair according to claim 1,  
including a headrest (7) that is tiltable and adjustable  
in translation along said first and second axes of  
rotation (X and Y).
- 25 18. A medical examination chair according to claim 1,  
including patient restraining means (31, 32, 33, 34).
19. A medical examination chair according to claim 1,  
including first locking means (50) for locking the  
primary arc (5) relative to the stationary column (3).
- 30 20. A medical examination chair according to claim 1,  
including second locking means (60) for locking the  
secondary arc (6) in a plurality of positions relative to  
the primary arc (5).
- 35 21. A medical examination chair according to claim 1,  
including at least two position sensors.

22. A medical examination chair according to claim 1,  
including at least two movement sensors.
23. A medical examination chair according to claim 1,  
5 including a videonystagmoscope system.
24. A medical examination chair according to claim 1,  
including a control and management member.
- 10 25. A medical examination chair according to claim 1,  
wherein said primary arc (5) is connected to said  
horizontal shaft (1) via the middle of its convex  
portion.
- 15 26. The use of a medical examination chair (F) according  
to claim 1, for treating positional vertigo.